

Product Name: TIP49A (9Z11) Rabbit Monoclonal Antibody
Catalog #: AMRe18959

Summary

Production Name	TIP49A (9Z11) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	RUVBL1
Alternative Names	ECP54; Pontin 52; PONTIN; RuvB like 1; RUVBL1; RVB1; TAP54 alpha; TIP49; TIP49a;
Gene ID	8607.0
SwissProt ID	Q9Y265.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	50kDa

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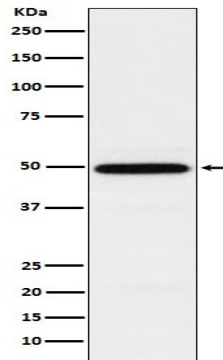
Background

Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity. Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity (PubMed:[17157868](http://www.uniprot.org/citations/17157868)). Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A (PubMed:[14966270](http://www.uniprot.org/citations/14966270)). This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription (PubMed:[14966270](http://www.uniprot.org/citations/14966270)). This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair (PubMed:[14966270](http://www.uniprot.org/citations/14966270)). The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage (PubMed:[14966270](http://www.uniprot.org/citations/14966270)). Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome (PubMed:[24463511](http://www.uniprot.org/citations/24463511)). Proposed core component of the chromatin remodeling INO80 complex which exhibits DNA- and nucleosome-activated ATPase activity and catalyzes ATP-dependent nucleosome sliding (PubMed:[16230350](http://www.uniprot.org/citations/16230350), PubMed:[21303910](http://www.uniprot.org/citations/21303910)). Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex (PubMed:[10882073](http://www.uniprot.org/citations/10882073), PubMed:[16014379](http://www.uniprot.org/citations/16014379)). Essential for cell proliferation (PubMed:[14506706](http://www.uniprot.org/citations/14506706)). May be able to bind plasminogen at cell surface and enhance plasminogen activation (PubMed:[11027681](http://www.uniprot.org/citations/11027681)).

Research Area

Image Data

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Western blot analysis of TIP49A expression in K562 cell lysate.

Note

For research use only.